

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P499467

Luminaire Tested: **LDA2B159050R45D010 2LBD1MW**

Issue Date: 3/8/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P499467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-037-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/8/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDA2B159050R45D010 2LBD1MW  
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

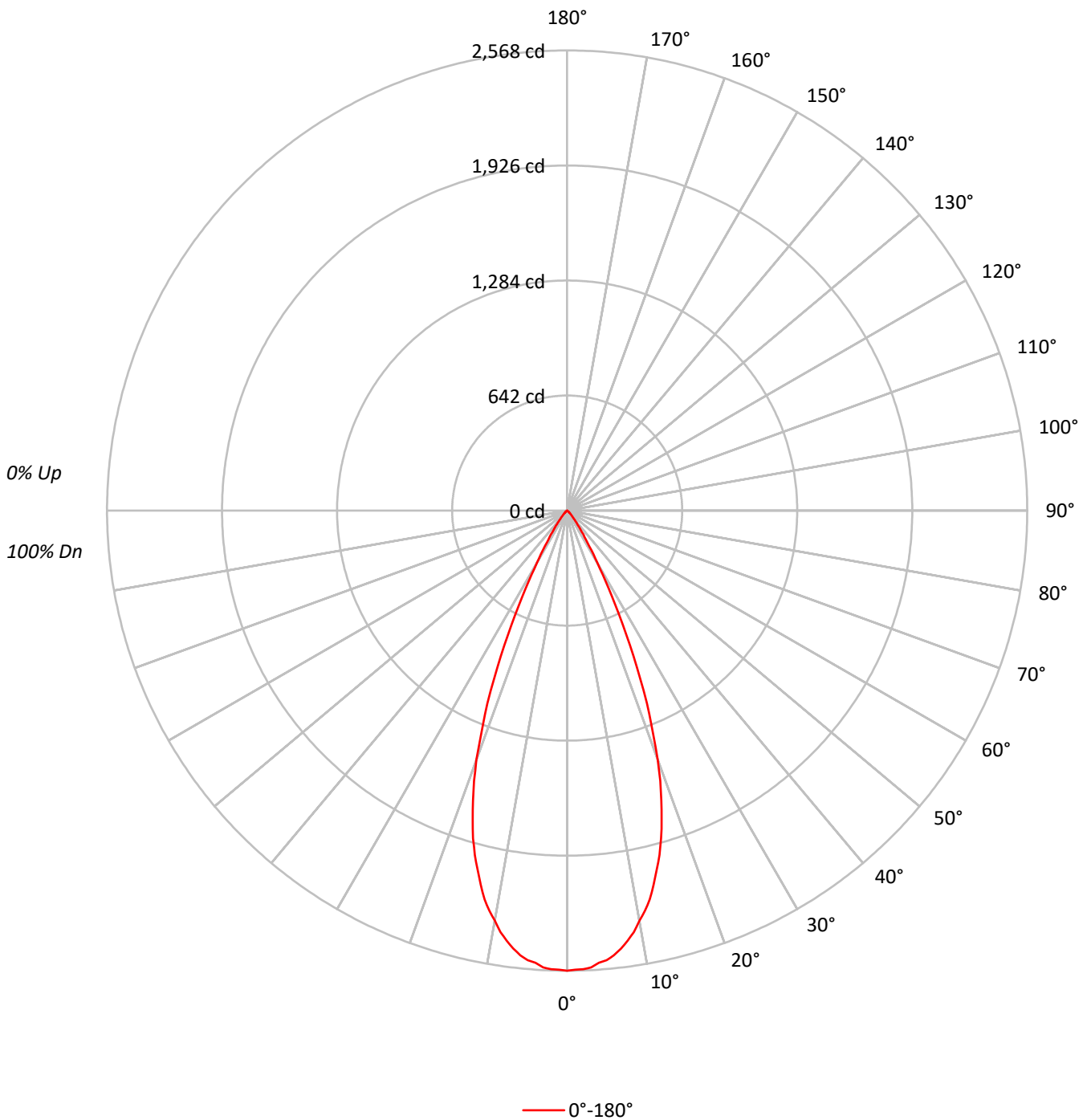
Lumens per Lamp: N/A  
Luminaire Lumens: 1276.4 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.65  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P499467

CATALOG NUMBER: LDA2B159050R45D010 2LBD1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P499467

CATALOG NUMBER: LDA2B159050R45D010 2LBD1MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	105	100	96	93	104	99	95	92	96	93	90		94	91	89		92	90	88	86
4	101	95	90	87	100	94	90	86	92	88	85		90	87	84		88	86	84	82
5	97	90	86	82	96	90	85	82	88	84	81		86	83	80		85	82	80	78
6	94	86	81	78	92	86	81	77	84	80	77		83	79	76		82	78	76	75
7	90	82	77	74	89	82	77	74	81	76	73		80	76	73		78	75	73	71
8	87	79	74	71	86	78	74	70	77	73	70		76	73	70		76	72	70	68
9	84	76	71	67	83	75	70	67	74	70	67		73	70	67		73	69	67	66
10	81	73	68	65	80	72	68	64	71	67	64		71	67	64		70	67	64	63

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1266904
5°	1247625
10°	1164261
15°	1016066
20°	776879
25°	451169
30°	191414
35°	79200
40°	34971
45°	18071
50°	8980
55°	2150
60°	1184
65°	700
70°	865
75°	0
80°	0
85°	0



TEST NUMBER: P499467

CATALOG NUMBER: LDA2B159050R45D010 2LBD1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.4	18.4
10°-20°	542.5	42.5
20°-30°	379.3	29.7
30°-40°	93.9	7.4
40°-50°	21.7	1.7
50°-60°	3.6	0.3
60°-70°	0.7	0.1
70°-80°	0.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1156.3	90.6
0°-40°	1250.2	97.9
0°-60°	1275.5	99.9
0°-90°	1276.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2568	
5°	2519	234
15°	1989	543
25°	829	379
35°	132	94
45°	26	22
55°	2	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P499467

CATALOG NUMBER: LDA2B159050R45D010 2LBD1MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2567.9
1°	2562.4
2°	2561.2
3°	2553.1
4°	2530.3
5°	2519.2
6°	2496.3
7°	2463.6
8°	2423.4
9°	2382.1
10°	2324.0
11°	2276.4
12°	2218.4
13°	2143.0
14°	2066.5
15°	1989.3
16°	1904.0
17°	1802.7
18°	1700.2
19°	1594.6
20°	1479.7
21°	1342.0
22.5°	1163.5
23°	1090.0
24°	957.9
25°	828.8
26°	707.8
27°	594.7
28°	495.3
29°	408.8
30°	336.0
32.5°	206.9
35°	131.5
37.5°	85.2
40°	54.3
42.5°	37.1
45°	25.9
47.5°	18.5
50°	11.7
52.5°	6.2
55°	2.5
57.5°	1.2
60°	1.2
62.5°	0.6
65°	0.6



TEST NUMBER: P499467

CATALOG NUMBER: LDA2B159050R45D010 2LBD1MW

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)